

WHAT IS CLAIMED IS:

1. A ball screw device comprising:

a screw shaft of which an outer peripheral surface is formed with a helical screw groove;

a nut of which an inner peripheral surface is formed with a helical screw groove corresponding to the helical screw groove of said screw shaft;

a helical circulation path defined by the two helical screw grooves;

a multiplicity of balls so disposed in said helical circulation path as to be capable of rolling; and

a plurality of spacers,

wherein each spacer is disposed between two adjacent balls and has two concave surfaces facing respectively to said two balls, and

a section of each of the concave surfaces of at least one spacer is shaped such that a central portion is rectilinearly connected to an outer edge of the spacer.

2. A linear motion device comprising:

an outer member;

an inner member facing said outer member via a gap;

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4 *Sub C3 added* a multiplicity of balls disposed between said outer  
5 member and said inner member; and  
6 a spacer interposed between adjacent balls,  
7 wherein said spacer has concave surfaces with which said  
8 adjacent balls come into line contact.

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1 3. A linear motion device comprising:  
2 an outer member;  
3 an inner member facing said outer member via a gap;  
4 a multiplicity of balls disposed between said outer  
5 member and said inner member; and  
6 a spacer interposed between adjacent balls,  
7 wherein said spacer has at least three spaced portions  
8 with which said adjacent balls come into contact.

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V3*